

# Exhibit B

Friedland CV January, 2018

**Robert P Friedland MD**

2119 Starmont Road, Louisville, Kentucky, KY 40207 USA

Tel: 502- 852-2871

Fax: 502- 852-6344

robert.friedland@louisville.edu

**PRESENT POSITION AND OFFICE ADDRESS**

Mason C. and Mary D. Rudd Chair  
 Professor  
 Chief, Laboratory of Neurogeriatrics  
 Department of Neurology  
 University of Louisville School of Medicine  
 500 S. Preston, A 113  
 Louisville, KY 40202

Visiting Professor  
 Molecular Neuroscience Research Center  
 Brain Disease Research Institute  
 Biomedical Innovation Center  
 Shiga University of Medical Science  
 Otsu, Japan

**DATE AND PLACE OF BIRTH**

December 4, 1948 New York, N.Y.

**EDUCATION**

|   |           |
|---|-----------|
| City College of New York, New York<br>Degree: B.S., Biology   | 1965-69   |
| University of Kentucky College of Medicine<br>Lexington, Kentucky   | 1969-71   |
| Summer Fellowship in Neurology,<br>Department of Neurology<br>Boston University School of Medicine<br>Boston, Massachusetts | 1970      |
| Mount Sinai School of Medicine<br>City University of New York<br>New York, New York   | 1971-73   |
| M.D.  | June 1973 |

**POST GRADUATE TRAINING**

|  |           |
|--|-----------|
| Straight Medicine Internship<br>Beth Israel Hospital<br>New York, New York   | 1973-74   |
| Neurology Residency and Chief Residency<br>Mount Sinai School of Medicine<br>New York, New York                          | 1974-77   |
| Case Western Reserve University<br>Weatherhead School of Management<br>Member, Professional Fellows Program (15 credits) | 1992-1993 |

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|   |      |
|---|------|
| Banking & Finance 420: Health Finance & Economics (3 credits) | 1993 |
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|   |      |
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| Health Systems Management 456: Issues in Health Management<br>(3 credits) | 1994 |
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| Harvard School of Public Health, Program for Chiefs of Clinical Services | 2009 |
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| Harvard University and American Association of Medical Colleges<br>Executive Development Seminar for Associate Deans and<br>Department Chairs | 2010 |
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**PROFESSIONAL CERTIFICATION**

|  |      |
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| Diplomate, National<br>Board of Medical<br>Examiners | 1974 |
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| Certified, American Board<br>of Psychiatry and<br>Neurology | 1979 |
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| Kentucky, Physician and<br>Surgeon (GO 39005) | 2008-present |
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**PROFESSIONAL ACTIVITIES**

|   |         |
|---|---------|
| Research Fellow, National Institutes of Health<br>(Senile Dementia: Biological and Behavioral Aspects)<br>Albert Einstein College of Medicine<br>New York, New York | 1977-78 |
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| Associate, Department of Neurology<br>Albert Einstein College of Medicine<br>New York, New York<br>Clinical Study of Aging, Dementia and Cerebral Blood Flow (133<br>Xe Inhalation) | 1977-78 |
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| Assistant Attending Neurologist<br>Lincoln Hospital, Bronx, New York | 1977-78 |
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| Clinical Fellow<br>Jacobi Hospital, Department of Neurology<br>Bronx, New York | 1977-78 |
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| Assistant Professor of Neurology, in Residence<br>University of California, Davis | 1978-85 |
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|   |      |
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| Associate Professor of Neurology, in Residence<br>University of California, Davis | 1985 |
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| Staff Neurologist<br>Veterans Administration Medical Center<br>Martinez, California | 1978-85 |
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| Assistant Chief, Neurology Service<br>Veterans Administration Medical Center<br>Martinez, California   | 1978-84                   |
| Attending Neurologist, Highland General Hospital<br>Oakland, California  | 1979-85                   |
| Guest Scientist, Donner Laboratory<br>University of California, Berkeley   | 1979-85                   |
| Chief Neurologist<br>Research Medicine Group Donner Laboratory<br>University of California, Berkeley   | 1982-85                   |
| Director and Founder, Northern California Alzheimer's<br>Disease Center, University of California, Davis,<br>Berkeley, California            | 1985                      |
| Chief, Brain Aging and Dementia Section<br>Laboratory of Neurosciences<br>National Institute on Aging, NIH                                   | 1986-1990                 |
| Deputy Clinical Director<br>National Institute on Aging  | 1986-1990                 |
| Clinical Professor<br>Department of Neurology<br>Georgetown University School of Medicine  | 1988-1990                 |
| Director, Alzheimer's Disease and Memory Disorders Clinic<br>Georgetown University Hospital  | 1988-1990                 |
| Clinical Director<br>Acting Director<br>Associate Director<br>NIA Alzheimer's Disease Research Center<br>University Hospitals of Cleveland   | 1990-1993<br>1993<br>1994 |
| Associate Professor<br>Professor<br>Departments of Neurology, Psychiatry and Radiology<br>Case Western Reserve University School of Medicine | 1990-2001<br>2001-2008    |
| Chief, Laboratory of Neurogeriatrics<br>Department of Neurology<br>Case Western Reserve University School of Medicine                        | 1994-2008                 |
| Fellowship for Foreign Scientists, Japan Foundation for Aging and<br>Health, Osaka University Hospital, Japan                                | March, 2005               |
| Visiting Scholar, Institute of Public Health, Cambridge University,<br>United Kingdom (Sabbatical leave from CWRU)                           | 2008                      |

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| Chairman, Dept of Neurology, University of Louisville School of Medicine  | 2008-2013    |
| Mason C. and Mary D. Rudd Chair and Professor<br>Department of Neurology<br>University of Louisville School of Medicine | 2008-present |
| Acting Chair, Department of Neurosurgery, University of Louisville School of Medicine                                   | 2009         |
| Associate Member, Dept of Anatomical Sciences and Neurobiology, University of Louisville School of Medicine             | 2010-Present |
| Member of the Graduate Faculty, University of Louisville School of Medicine   | 2011-present |
| Chief, Laboratory of Neurogeriatrics, Department of Neurology, University of Louisville School of Medicine              | 2013-present |
| Senior Researcher, Kyoto University, Japan (sabbatical)   | 2013         |
| Associate, Center on Aging and Vitality, Newcastle University<br>Newcastle upon Tyne, UK (sabbatical)                   | 2013         |
| Director, Checkmating Dementia (Foundation)   | 2014-present |

#### **PATENTS**

|   |            |
|---|------------|
| Application for Letters Patent No. 62/404,447 "Improvements in bacterial amyloid and related methods" | Sept. 2017 |
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#### **COMMUNITY ADVISORY ACTIVITIES:**

|   |           |
|---|-----------|
| Medical Advisor and Member, Board of Directors<br>Alzheimer's Aid Society of Northern California  | 1983-85   |
| Member, Scientific Advisory Committee<br>Family Survival Project, San Francisco   | 1984-1995 |
| Chief Witness, California Assembly Select Committee<br>on Mental Health, Hearing on "Organic Brain Syndromes," State<br>Capital, Sacramento | 1984      |
| Member, Ad Hoc Committee to Consider a National<br>Conference on Neurological Disease and Aging, Special<br>Committee on Aging, U.S. Senate | 1986      |
| Consultant, WNET/Thirteen, New York   | 1988      |
| Member, Neuroscience Advisory Panel, Conte Institute for<br>Environmental Health, Pittsfield, MA  | 1993-1994 |
| Consultant, Dementia and Driving Consensus Meeting, Swedish<br>National Road Administration, Borlange                                       | 1994      |

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**POSTDOCTORAL FELLOWS TRAINED IN GERIATRIC AND BEHAVIORAL NEUROLOGY:**

| <b><u>Fellow</u></b>             | <b><u>Dates</u></b> | <b><u>Institution</u></b>  | <b><u>Current Position</u></b>  |
|----------------------------------|---------------------|----------------------------|---|
| William Jagust, MD               | 1983-1985           | Univ. of CA, Berkeley      | Prof. Public Health, UC Berkeley (formerly Chair of Neurology and Director of AD Research Center, Univ. CA, Davis; Recipient of the 2013 Potamkin Award from the AAN) |
| Charles DeCarli, MD              | 1988-1990           | NIA, NIH                   | Prof. Neurology, Dir. of Alzheimer Disease Research Center, Univ. CA, Davis   |
| Gary Gerard, MD                  | 1990-1992           | CWRU                       | Practice of Neurology<br>Toledo , Ohio  |
| Jeffrey Kaye, MD                 | 1986-1990           | NIA, NIH                   | Prof. Neurology, Dir. of Alzheimer's Disease Research Center, Univ. of Oregon, Portland   |
| Anand Kumar, MD                  | 1988-1990           | NIA, NIH                   | Professor of Psychiatry, UCLA and President, American Association for Geriatric Psychiatry  |
| Jay Luxenberg, MD                | 1985-1987           | NIA, NIH                   | Geriatric practice, California  |
| Conrad May, MD                   | 1985-1988           | NIA, NIH                   | Geriatric practice Maryland   |
| Innocenzo Rainero, MD            | 1987-1988           | NIA, NIH                   | Univ. of Turin, Dept. of Neuroscience and Neurology Italy   |
| Judy Salerno, MD                 | 1989-1990           | NIA, NIH                   | Formerly Clinical Director, National Institute on Aging President, New York Academy of Sciences   |
| Mark Shapiro, MD                 | 1985-1987           | NIA, NIH                   | SUNY, Dept. of Neurology  |
| Concepcion Esteban-Santillan, MD | 1997-2000           | Case Western Reserve Univ. | Neurology practice, Wisconsin   |
| Peter Hedera, MD                 | 1992-1994           | Case Western Reserve Univ. | Assoc. Prof. Neurology, Vanderbilt Univ.  |
| Alan Lerner, MD                  | 1991-1993           | Case Western Reserve Univ. | Prof. Neurology, Director Alzheimer Center, Case Western Reserve Univ.  |
| Elihu Mizrahi, MD                | 1999-2001           | Case Western Reserve Univ. | Dir. Geriatrics Unit, Sheba Medical Ctr., Tel Aviv, Israel  |
| Jiong Shi, MD                    | 1998-2000           | Case Western Reserve       | Attending Neurologist, Barrow   |

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|                                |      | Univ.                         | Neurological Institute,<br>Phoenix, Arizona      |
| Katarzyna Gustaw,<br>MD, Ph.D. | 2004 | Case Western Reserve<br>Univ. | Neurology/Psychiatry faculty<br>Cleveland Clinic |

**EXTRAMURAL ADVISORY AND EDITORIAL ACTIVITIES**

|  |  |
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| Alzheimer's Disease Drug Discovery Foundation      | 2015-present                             |
| Ad Hoc Reviewer of Research Programs               |  |
| Research Service, VA Central Office                | 1984, 1986, 1988, 1989,<br>1991, 1993-95 |
| Division of Research Grants, NIH                   | 1987-1995, 1997, 1998                    |
| Human Frontier Science Program (EEC, Strasbourg)   | 1991, 1991-1993, 1997                    |
| Edison Biotechnology Center                        | 1992                                     |
| Retirement Research Foundation                     | 1993                                     |
| Netherlands Organization for Scientific Research   | 1994                                     |
| Alzheimer Association                              | 1994, 1996-1999, 2007-<br>present        |
| British Columbia Health Research Foundation        | 1995, 1999                               |
| American Federation for Aging Research             | 1995-present                             |
| The National Institute for Psychobiology in Israel | 1998, 2002, 2004, 2005                   |
| Special Emphasis Panel, NIH, CSR                   | 1998                                     |
| Warrant Committee, Italian Ministry of Research    | 1998                                     |
| Douglas French Foundation, Los Angeles             | 2002                                     |

**AD HOC REFEREE OF MANUSCRIPTS AND PROPOSALS**

|  |                 |
|--|-----------------|
| Addiction Biology  | 2016            |
| Agency for Health Care Policy and Research (DHHS) 1994             |                 |
| <i>Alzheimer's Disease and Associated Disorders</i>                | 2005            |
| <i>American Journal of LAzheimer's Disease and Other Dementias</i> | 2013            |
| <i>Annals of Neurology</i>   | 1993-1995. 2007 |

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| <i>Archives of Neurology</i>                         | 1986-1989, 1992, 1997, 2001-present |
| <i>Biological Psychiatry</i>                         | 1989-1991                           |
| <i>Brain</i>   | 2014, 2017                          |
| <i>Brain Research</i>                                | 1987, 1993                          |
| <i>Current Alzheimer Research</i>                    | 2008-present                        |
| <i>Circulation</i>                                   | 2004                                |
| <i>Investigative Radiology</i>                       | 1995                                |
| <i>JAMA Psychiatry</i>                               | 2015                                |
| <i>Journal of Alzheimer's Disease</i>                | 2005-present                        |
| <i>Journal of the American Geriatrics Society</i>    | 1999                                |
| <i>Journal of the American Medical Association</i>   | 1991-1998, 2000, 2002, 2003         |
| <i>Journal of Cerebral Blood Flow and Metabolism</i> | 1987, 1988, 1992-1994               |
| <i>Journal of Clinical Epidemiology</i>              | 2007                                |
| <i>Journal of Computer Assisted Tomography</i>       | 1987                                |
| <i>Journal of Geriatric Psychiatry and Neurology</i> | 1991, 1996                          |
| <i>Journal of Neuroimmunology</i>                    | 1999                                |
| <i>Journal of Neurological Sciences</i>              | 2006                                |
| <i>Journal of Nuclear Medicine</i>                   | 1993-1996, 1998, 1999, 2002         |
| <i>Lancet Neurology</i>                              | 2004, 2006                          |
| <i>Nature Biotechnology</i>                          | 2001                                |
| <i>Nature Medicine</i>                               | 2000                                |
| <i>Nature Microbiology</i>                           | 2016                                |
| <i>Neurobiology of Aging</i>                         | 1991-1993, 1999, 2005               |
| <i>Neuroepidemiology</i>                             | 2002                                |
| <i>Neurology</i>                                     | 1988-1997, 2002, 2005, 2006         |



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| <i>Neuroscience</i>   | 2014 |            |
| <i>Neurology Network Commentary</i>   |      | 1997       |
| <i>Nutrition Reviews</i>  |      | 2016       |
| <i>Public Library of Science One (PLOS One)</i>   | 2013 |            |
| <i>Proceedings of the National Academy of Sciences</i>  |      | 2001       |
| <i>Scanning Microscopy International</i>  |      | 1994       |
| <i>Science</i>  |      | 1984, 1985 |
| <i>Seminars in Neurology</i>  |      | 1998, 1999 |
| <i>Vaccines</i>   |      | 2017       |
| <i>Viruses 2016</i>   |      |            |
| Member, Alzheimer's Disease Review Panel Department of Health Services State of California  |      | 1985       |
| Member, Editorial Board <i>Alzheimer's Disease: an International Journal</i>  |      | 1985-1994  |
| Member, Scientific Program Committee, IX European International Neuropsychology Society Conference, Veldhoven   |      | 1986       |
| Member, Scientific Program Committee (Neurology) Annual Meeting of the Society for Nuclear Medicine, Washington, D.C.   |      | 1986, 1989 |
| Office of Medical Applications of Research NIH Planning Committee: Consensus Development Conference on Nuclear Magnetic Resonance Imaging                           |      | 1986-87    |
| Temporary Advisor, Division of Mental Health World Health Organization, Geneva, Switzerland   |      | 1987       |
| Temporary Advisor, Division of Mental Health World Health Organization, Beijing, China  |      | 1987       |
| Consultant, World Health Organization Special Program for Research on Aging, Bethesda, MD.  |      | 1988       |
| Consultant, "Cooperative Studies of Alzheimer's Disease in U.S. and Japan," National Institute of Neuroscience, National Center for Neurology and Psychiatry, Tokyo |      | 1989       |
| American Neurological Association, Representative to the National Coalition for Research in Neurological Disorders  |      | 1991-1997  |
| Consultant for Review of Drug Development Ayerst, Inc   |      | 1986       |

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| Miles Pharmaceuticals   | 1991   |
| Astra Zeneca  | 1999   |
| Quintiles Pacific, Inc  | 2000   |
| Consortium to Establish a Registry for Alzheimer's Disease<br>(CERAD) (NIH) Clinical Task Force   | 1991-1996  |
| Reviewer - Agency for Health Care Policy and Research (DHHS)<br>Panel on recognition and initial assessment of Alzheimer's disease<br>and related dementias   | 1994   |
| Symposium Co-Organizer: "Neurodegenerative Disorders:<br>Common Molecular Mechanisms", Ocho Rios, Jamaica, Goteborg<br>University and University of the British West Indies   | March, 1994<br>March, 1995<br>March, 1997<br>February, 1998<br>April, 2000 |
| Symposium Co-Organizer: "Neurodegenerative Disorders:<br>Common Molecular Mechanisms," University of the British West<br>Indies, Trinidad   |  |
| Medical and Scientific Advisory Board<br>Alzheimer's Association, Chicago (Ad hoc member)   | 1994   |
| Symposium Co-Organizer: The Second Tel Aviv University<br>Alzheimer's Disease Conference-Joint meeting with Case Western<br>Reserve University (Supported by the Joseph & Florence Mandel<br>Foundation, Cleveland, OH, Tel Aviv University, the NIA, and<br>Philip Morris)(\$81,000) | May 1995   |
| Consultant, Alzheimer's disease and fitness for driving,<br>Association for the Advancement of Automotive Medicine, National<br>Highway Safety Administration, Sweden   | 1996   |
| Consultant, Monitor/Tracker for Alzheimer's disease, PI. R.<br>Schmidt, Cleveland Medical Devices Corporation NIH/SBIR  | 1996-1999  |
| Member, American Federation for Aging Research,<br>National Scientific Advisory Council   | 1996-present   |
| Member, Review Board of the Medical and Scientific Advisory<br>Council, Ronald and Nancy Reagan Research Institute,<br>Alzheimer's Association  | 1997-present   |
| Member, Scientific Advisory Committee, National Institute for<br>Psychobiology, Israel  | 1999-present   |
| Panel member, Workshop on Alzheimer's Disease Epidemiology<br>Bethesda, NIH   | March, 1998  |
| Consultant for Alzheimer's disease drug studies and biomarkers  |  |
| Chrysalis Corporation, (Contract Research Organization)<br>Austin, Texas  | 1997-1999  |
| Pfizer, Inc.  | 2000   |

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| Member, International Advisory Board,<br>"Vascular Factors in Alzheimer's Disease",<br>International Meeting, Northumberland, UK  | May, 1999     |
| Member, Special Emphasis Panel ZRG1 BDCN2(02)<br>NIH Center for Scientific Review   | October, 1999 |
| Member, Neuroscience of Aging Review committee,<br>NIA Initial Review Group, NIH  | June, 2000    |
| Member, Scientific Review Board, Institute<br>for the Study of Aging, New York  | 1999-present  |
| Associate Editor and member, Editorial Board,<br><i>Journal of Alzheimer's Disease</i>  | 1999-present  |
| Principal Organizer, "First International Symposium on Alzheimer's<br>Disease in the Middle East", Limassol, Cyprus   | April, 2001   |
| Reviewer, Human Frontiers Science Program, Strasbourg   | 1999-2000     |
| Member, Initial Review Board of the Medical and Scientific<br>Advisory Council, Alzheimer's Association   | 1999- present |
| Member, International Scientific Committee<br>Third World Congress on Vascular Factors in Alzheimer's Disease<br>Kyoto  | April, 2002   |
| Principal Organizer, "First International Symposium on Alzheimer's<br>Disease in the Middle East", Limassol   | April, 2001   |
| Principal Organizer, "Second International Symposium on<br>Alzheimer's Disease in the Middle East" Istanbul   | May, 2003     |
| External Reviewer, Michael Smith Foundation for Medical<br>Research, Vancouver  | 2001-2002     |
| Member, International Coordinating Committee, and Founding<br>Member, International Society for Vascular Behavioral and<br>Cognitive Disorders (VAS-COG), First Meeting, Goteborg | August, 2003  |
| Reviewer, State of Missouri Alzheimer's Disease and Related<br>Disorders Advisory Board   | 2003          |
| Member, Middle East Academy for Medicine of Ageing, Beirut  | 2003-present  |
| Member, Editorial Board, Middle East Journal of Age and Aging   | 2004-present  |
| Member, Editorial Advisory Board, Current Alzheimer Research  | 2004-present  |
| Member, International Scientific Advisory Board and<br>Medical and Scientific Panel, Alzheimer's Disease<br>International (Annual Meetings, Kyoto, 2004, and Istanbul,<br>2005)   | 2004-present  |

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| Principal Organizer, Third International Symposium on Alzheimer's Disease in the Middle East, Istanbul  | October, 2005   |
| Principal Organizer, "What's up on the grapevine: Memory loss, health and research in the African American community, Health Literacy Conference, Case Western Reserve University | September, 2005 |
| Extramural reviewer, American Institute of Biological Sciences  | 2005            |
| Member, National Scientific Advisory Council, American Federation for Aging Research  | 2004-2005       |
| Ad hoc reviewer for Special Emphasis Panel, NIDDK, NIH  | 2005            |
| Associate Editor, The Scientific World Neurology (Berkshire, UK, Journal)   | 2005-present    |
| Member, International Scientific Committee, International Neuroscience Conference, Al Ain, UAE,   | November, 2005  |
| Clinical Therapeutics (Elsevier), Editorial Board Consultant  | 2005            |
| Member, Board of Directors, American Technion Society, Cleveland Chapter  | 2005-2008       |
| Editorial consultant, "Clinical Therapeutics"   | 2006            |
| Member, Advisory Council, Hospice of the Western Reserve  | 2006-2008       |
| Member, Scientific Review Board, Alzheimer's Disease Drug Discovery Foundation  | 2006-present    |
| Member, Scientific Committee, Third Congress of the International Society for Vascular Cognitive and Behavioral Disorders, San Antonio, TX  | July, 2007      |
| Member, Editorial Board, Journal of Pre-Clinical and Clinical Research  | 2007 to 2011    |
| Member, Scientific Committee, Fourth Congress of the International Society for Vascular Cognitive and Behavioral Disorders, Singapore   | January, 2009   |
| Reviewer of Driving Risk Guidelines, Neuroepidemiology Section, American Academy of Neurology   | 2008            |
| Grant Reviewer, Wellcome Trust, UK  | 2008            |
| Honorary Editorial Board Member, "The Application of Clinical Genetics Journal", Dove Medical Press   | 2008 to present |
| Member, Medical and Scientific Advisory Panel of Alzheimer's Disease International  | 2008 to present |

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| Member, Editorial Board, Frontiers in Alzheimer's Disease   | 2001 - present |
| Member, Editorial Board, Frontiers in Neurodegeneration (Review Editor)   | 2012-present   |
| Co-Organizer, Sixth International Symposium on Alzheimer's disease in the Middle East, Istanbul,  | October, 2013  |
| Reviewer, Environmental Health Perspectives, NIEHS, NIH   | 2013           |
| Member, Alzheimer's Disease Genetics Consortium, Executive Committee  | 2013-present   |
| Member, Editorial Board, Annals of Neuroscience   | 2014-present   |
| Co-organizer: Seventh International Symposium on Alzheimer's disease in the Middle East, Abu Dhabi, UAE   | Feb. 2017      |
| Reviewer, Arizona Biomedical Research Commission  | 2014           |
| Member, Alzheimer's Drug Discovery Foundation, Scientific Review Board  | 2013-present   |
| Chair, Center For Scientific Review, Special Emphasis Panel ZRG1 ETTN-E 55 R, PAR15-359: Biomarker Studies for Diagnosing Alzheimer's Disease and Predicting Progression, NIH | March, 2016    |
| Reviewer, French National Research Agency   | 2016           |

#### EXTRAMURAL AND INTRAMURAL RESEARCH SUPPORT AND AWARDS

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|  | 1979-81 |
| Principal Investigator, "Effect of activation of ischemic neurons on recovery from stroke", University of California, Davis, Faculty Research Grant        |         |
| Principal Investigator, VA Merit Review Research Program, "Cerebral Metabolic Indices of Dementia Pathophysiology"   | 1981-84 |
| Principal Investigator, (Renewal of above Program) "Structural and Functional Indices of Dementia Pathophysiology" (\$47,337/year)                         | 1984-85 |
| Co-Investigator, "Ischemic Brain Disease," (NIH HL 25840), (\$34,192/year), Principal Investigator, Philip Weinstein, M.D.                                 | 1983-85 |
| Co-Investigator "Cerebral blood flow patterns in Alzheimer's disease", (NIH), (\$187,000/year)<br>Principal Investigator, Thomas F. Budinger, M.D., Ph.D.  | 1985    |
| Principal Investigator, "Oxiracetam in the treatment of progressive degenerative dementia of mild to moderate severity", Ciba-Geigy Corporation (\$67,000) | 1985    |
| Project Director and Founder "Northern California Alzheimer's Disease Center," Department of Health Services, State of California (\$100,000/year)         | 1985    |

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| Chief, Brain Aging and Dementia Section<br>National Institute on Aging, NIH (\$2.4 million/year)   | 1986-1990 |
| Director, Clinical Core, Cleveland ADRC  | 1990-1993 |
| Acting Director, Cleveland ADRC  | 1993      |
| Co-Director Clinical Core<br>Alzheimer's Disease Research Center<br>University Hospitals of Cleveland NIA AG08012 (\$1,386,582/year)   | 1994      |
| Co-Investigator, Clinical Research Center for the Psychopathology of the Elderly NIMH MH43444 (\$100,000/year)   | 1990-1991 |
| Principal Investigator, Monoclonal antibodies for the immunochemical evaluation of Alzheimer's Disease<br>NIA ADRC Pilot grant (\$22,150)  | 1990-1992 |
| Co-Investigator, State of Ohio Center Grant "Causes and Treatments of Alzheimer's Disease" (\$265,909/year)  | 1990-1992 |
| Lawrence C. McHenry Award<br>American Academy of Neurology   | 1990      |
| Director Consortium to Establish a Registry for Alzheimer's Disease Clinic (CERAD), Cleveland, NIA   | 1990-1996 |
| Principal Investigator, "A Placebo Controlled Study of Acetyl-L-Carnitine in Patients with Alzheimer's Disease: A Multi-Center Study," Sigma-Tau Pharmaceuticals, Inc. (\$140,000)   | 1991-1994 |
| Principal Investigator (45%) "The effects of cigarette smoking on the development of Alzheimer's disease: Epidemiological, Clinical and Neurobiological Studies." Philip Morris USA (\$6,989,078 Direct & Indirect Costs, 1991-1996)                     | 1991-1996 |
| Principal investigation (40%) "The effects of cigarette smoking on the development of Alzheimer's disease: International epidemiological and neurobiological studies." Philip Morris, USA, (Jan. 1997-Dec. 2001) \$9,809,202 (Direct and Indirect costs) | 1997-2001 |
| Principal Investigator (20%) "Monoclonal antibody imaging of cerebral A $\beta$ in Alzheimer's disease," Philip Morris USA (\$59,103 Direct costs per year)  | 1991-1996 |
| Sponsor, IND-BB-5059, "Technetium 99mTc Murine monoclonal antibody 10H3 Fab," Food and Drug Administration (Collaboration with the Massachusetts General Hospital, Mallinckrodt Medical and NeoRx Corporation)   | 1994      |
| Saul Horowitz, Jr. Memorial Award<br>Mt. Sinai School of Medicine, New York, New York  | 1994      |
| Co-Investigator, "The effect of lazabemide on regional brain monoamine oxidase type B activity in patients with Alzheimer's Disease as measured by $^{11}\text{C}$ -L-Selegiline positron emission tomography," Hoffmann-LaRoche, Inc.                   | 1994-1995 |

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| Principal Investigator: "Cross-Cultural (Cleveland-Israel) studies of the basic and clinical sciences of Alzheimer's disease," [(Joseph and Florence Mandel Foundation (\$150,000))]   | 1995-98   |
| Principal Investigator: "A population based prevalence study of genetic and environmental factors for Alzheimer's disease in Kenya", Alzheimer's Association (Chicago) (\$68,000 per year, direct and indirect costs)                                  | 1997-2000 |
| Principal Investigator: "Noninvasive imaging of cerebral amyloid- $\beta$ deposition in Alzheimer's disease," Nickman Family gift to University Hospitals of Cleveland (\$250,000)   | 1997-2003 |
| Principal Investigator: CWRU Site, Multi-institutional Research on Alzheimer Genetic Epidemiology, NIA Grant (L. Farrer, PI)   | 1998-2008 |
| Principal Investigator: Israel and Alzheimer's disease, Epidemiology, Demography and Biometry Program, NIA, NIH, Contract #263-MO-818915, \$22,950 (total costs)   | 1998-1999 |
| Principal Investigator: "Genetic and environmental risk factors for Alzheimer's disease in Israeli Arabs", \$50,000, Institute for the Study on Aging, New York, New York  | 1999-2000 |
| Principal Investigator: "Genetics of Alzheimer's Disease in Israeli Arabs," National Institutes of Health, National Institute on Aging, NIH, R01 AG017173-01A1, (\$473,753 total costs year one), Data sharing administrative supplement funded (9/03) | 2000-2005 |
| Principal Investigator: "Genetic and environmental factors for Alzheimer's disease in Israeli Arabs", Institute for the Study of Aging, NY, 3 years, direct costs \$210,000  | 2000-2003 |
| Principal Investigator, "First International Symposium on Alzheimer's Disease in the Middle East" NIH R13 grant, (total costs \$10,000) Institute for the Study of Aging, NY, \$30,000   | 2001-2002 |
| Principal Investigator: "Family based studies of gene-environment Interactions in Alzheimer's disease" Philip Morris External Research Program, \$2,111,035 total costs  | 2002-2005 |
| Convener and primary organizer, Second International Symposium on Alzheimer's Disease in the Middle East, Istanbul, Turkey, National Institute on Aging (R13 AG021082-01A1), and Alzheimer Association, USA, \$89,000 direct costs                     | May, 2003 |
| Principal Investigator: "Labeling of cerebral ABeta deposits in vivo using intranasal administration of serum amyloid P component" Presidential Technology Development Grant Program, CWRU \$50,000 direct costs                                       | 2002-2003 |
| Principal Investigator, Unrestricted gift to CWRU for research support, \$50,000, GOJO Corp., Akron, OH  | 2003-2006 |

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| Principal Investigator, The First Congress of the International Society for Vascular Behavioral and Cognitive Disorders (Vas-Cog 2003) Goteborg, Sweden, August 28-31, 2003, NIH R13, \$30,000 direct costs  | 2003-2004   |
| Principal Investigator: Molecular epidemiology and neurobiology of anti-Abeta antibody-antigen interactions in Alzheimer's disease"<br>Fullerton Family Foundation (Gift to CWRU), \$300,000 direct costs  | 2002-2007   |
| Principal Investigator, CWRU site, Multi-institutional Research in Alzheimer's Genetic Epidemiology (MIRAGE) (L. Farrer, PI), \$55,000/year direct costs, NIA, NIA   |             |
| Principal Investigator, National Alzheimer's Disease African-American Health Literacy Program, Pfizer, Eisai, Forest Corps., \$456,000 total costs   | 2004-2008   |
| Principal Investigator "Lipid metabolism and the causal web of Alzheimer's disease in the San Antonio Heart Study", Philip Morris Research Management Group, \$950,000 total costs   | 2005-2008   |
| Visitor, Osaka University Hospital, Japan, Mentor: M. Takeda, Japan Foundation for Aging and Health  | March, 2005 |
| Principal Investigator, Joseph and Florence Mandel Alzheimer's Disease Research Fund, CWRU, \$50,000/year 2004-2005, then \$100,000/year   | 2004-2008   |
| Principal Investigator, The Second Congress of the International Society for Vascular Behavioral and Cognitive Disorders (Vas-Cog 2003) Goteborg, Sweden, NIH. 1R13N5052985-01   | 2005-2006   |
| Principal Investigator: "Genetics of Alzheimer's Disease in Israeli Arabs, National Institute of Health, National Institute on Aging, RO1 AG017173-04A2, \$5,834,526 total costs   | 2005-2010   |
| Principal Investigator, Convener and primary organizer, Regional Symposium on Alzheimer's Disease in the Middle East, Istanbul, Turkey, Alzheimer Association, Kobe Steel Company, [Satellite Meeting to the 21 <sup>st</sup> International Conference of the Alzheimer's Disease International] NIH, 1R13 AG026842-01 | Oct, 2005   |
| Co-investigator, "A Multi-Center, Randomized, Double-Blind, Placebo Controlled Trial of Simvastatin to Slow the Progression of Alzheimer's Disease." Alzheimer's Disease Cooperative Study, NIH  | 2006-2008   |
| Study Physician, Alzheimer's Disease Neuroimaging Initiative, CWRU site  | 2006-2008   |
| Principal Investigator: Clinical & Translational Science Pilot Grant Program's Basic Award "The role of the potato virus Y nuclear inclusion B protein in the immunobiology of Alzheimer's disease" University of Louisville   | 2010-2011   |



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| Principal investigator, "The influence of bacterial amyloid on neuroinflammation and aggregation of brain proteins". Rapid Response Innovation Award, Michael J. Fox Foundation                  | 2013-2106    |
| Principal Investigator, The influence of bacterila amyloid proteins on Alpha syncuclein misfolding in transgenic mice, Univeristy of Louisville Basic Research Grant                             | 2016-present |
| Principal Investigator, Influence of Bacterial Amyloid on Amyloid Beta Protein Aggregation and Inflammation in a Mouse Model of Alzheimer's Disease, Kentucky Science and Ediucaation Foundation | 2016-present |
| Principal Investigator, Convener and primary organizer, Seventh International Symposium on Alzheimer's Disease in the Middle East, Abu Dhabi, UAE  | April, 2017  |
| Patent submitted: Bacterial amyloid induced proteinopathies and treatments therefor International Application Number: PCT/US17/55394   | Sept. 2017   |
| Prinicpal Investigator: The influence of the microbiota on disease phenotype in a mouse model of amyotrophic lateral sclerosis Axial Biotherapeutics, contract                                   | 2017-present |

#### EDUCATIONAL ACTIVITIES

|  |              |
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| Participation in Neurosciences Course<br>University of California, Davis<br>(First and second year students)   | 1977-85      |
| Instruction of medical students in Clinical Neurology<br>University of California, Davis<br>(Third and fourth year students)   | 1977-85      |
| Supervisor of Neurology Residency Training Program<br>University of California, Davis, Martinez VAMC Participation on<br>Doctoral Qualifying Examination Committees, University of<br>California, Berkeley | 1977-82      |
| Biophysics and Medical Physics   | 1981         |
| Physiological Optics   | 1984         |
| Instructor, Graduate Interdisciplinary Studies Course, IDS 271,<br>"Seminars in Neuropsychology" (4), Department of Psychology,<br>University of California, Berkeley                                      | 1981, 1982   |
| Instructor, Graduate Interdisciplinary Studies Seminar on Memory<br>Pathology, Department of Psychology, University of California,<br>Berkeley   | 1983         |
| Visiting Professor, Department of Neurology, University of<br>Kentucky College of Medicine, Lexington, Kentucky  | 1988         |
| Course Coordinator, Neurobiology of Aging and Dementia, Clinical<br>Elective for 3 <sup>rd</sup> and 4 <sup>th</sup> year medical students, Clinical Center, NIH   | 1985-1990    |
| Course Coordinator, Type A Elective, Alzheimer's disease: From<br>biology to clinical medicine, CWRU School of Medicine  | 1992-present |

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| Course Coordinator - Type A Elective -DGMS-2002 Critical Thinking for Clinical Medicine, CWRU School of Medicine   | 1995- present |
| Participation on Doctoral Qualifying Examination Committee, CWRU Department of Pathology   | 1992-1995     |
| Participating speaker, CWRU:   |               |
| GEMD 3002: The Physiology of Aging   | 1994-2000     |
| Anthropology 215: Health Culture & Disease Introduction to Medical Anthropology  | 1996-2005     |
| Philosophy 101, Introduction to Philosophy   | 1999          |
| Participant, CWRU School of Medicine Prematriculation Program  | 1997          |
| Applicant Interviewer, CWRU School of Medicine   | 1997-2005     |
| Member, Admissions Committee, CWRU School of Medicine  | 2000-2004     |
| Member, Dissertation Committee, Heather A. Lindstrom-Ufuti: "Determinants of Social Status in the Elderly. A field study in American and Western Samoa," CWRU Department of Anthropology | 1999-2004     |
| Course Director: "Alois Alzheimer and his Friends," American Academy of Neurology Educational Program, Annual Meeting, Philadelphia  | 2000          |
| Member, Dissertation Committee:  |               |
| Abdalla Bowirrat, MD, Tel Aviv University, Dept. of Neurology, "Epidemiological and Genetic Studies of Alzheimer type Dementia in an Elderly Arab Population in Israel"                  | 2001          |
| Katherine Miller, CWRU Dept. of Epidemiology and Biostatistics, "Genetic Susceptibility in Alzheimer's Disease and the Role of Lipid Metabolism"   | 2005-2007     |
| Jonathan Tedesco, CWRU Dept. of Chemistry  | 2005-present  |
| External Thesis Examiner, N. Cookson, University of Newcastle, Faculty of Medicine, MPH  | 2002          |
| Advisor, Journal Distribution Project, CWRU Student Government   | 2004-present  |
| Advisor, summer student David Bonda  | 2006, 2007    |
| Participating instructor, Scientific enrichment and opportunity program  | 2007          |
| University of Louisville   |               |
| Lecturer, Neuroscience course and neurology clerkship  | 2009-present  |

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Mentor, Undergraduate Research Scholar, Ramakanth Yakkanti 2011

Lecturer, Molecular Neuroscience Course (ASNB 614) 2016

University of Louisville, Thesis Committees

Dmitry Famil'tsev PhD, Department of Anatomical Sciences and Neurobiology 2013

Adam Gerstenecker PhD, Dept of Psychology  
Taking Clinical Judgment out of the Equation: A Call for the  
Standardization of MCI Diagnostic Criteria and Construction of a  
Statistical Model to Predict Conversion to Dementia  
2012-present

Jessica Strong PhD, Dept. of Psychology  
The Neuropsychological Profile of Older Adult Musicians and Non-Musicians:  
Implications for Cognitive Reserve in Late Life 2013-present

Jeremy Carmasin PhD, Dept. of Psychology 2013-present  
Awareness of executive functioning as a diagnostic tool in MCI and AD

Sadejah Hindi PhD, Dept. of Anatomical Sciences and Neurobiology  
Signaling Mechanisms in Skeletal Muscle Regeneration 2014-2015

Joseph McMillan MA, Dept. of Anatomical Sciences and Neurobiology  
TNF-like Weak Inducer of Apoptosis (TWEAK): Not So Weak After All 2016

## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Neurological Association

American Academy of Neurology, Fellow  
Geriatric Neurology Section (Research Committee)  
Behavioral Neurology Section  
Section on Neuroepidemiology

Greater Louisville Medical Society

Innominate Society for the History of Medicine, University of Louisville

International Society for Vascular Behavioral and Cognitive Disorders (VAS-COG) (Founding Member)

Society for Neuroscience

Behavioral Neurology Society

World Federation of Neurology  
Research Group on Neuroepidemiology  
Dementia Research Group

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## Association of University Professors of Neurology

**COMMITTEES**

|  |         |
|--|---------|
| VA Medical Center, Martinez                              |         |
| Quality Assurance Committee                              | 1978-85 |
| Neurology Service Quality Assurance Committee (Chairman) | 1984-85 |
| Pharmacy and Therapeutics Committee                      | 1979-82 |
| Library Advisory Committee (Vice-Chairman)               | 1978-84 |

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| Research and Development Committee | 1985 |
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| Lawrence Berkeley Laboratory | 1980-85 |
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University of California, Berkeley Pituitary Tumor Board

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| University of California, Davis School of Medicine | 1982-85 |
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| Admissions Committee          |           |
| National Institutes of Health |           |
| Clinical Center Medical Board | 1986-1990 |
| Subcommittee on Promotions    |           |

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| PET Steering Committee (Secretary) | 1987-1989 |
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**Case Western Reserve University/University Hospitals of Cleveland**

|   |           |
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| ElderHealth Center Advisory Committee           | 1990-1994 |
| Subcommittee on Neurology Resident Education    | 1991-2008 |
| Department of Neurology, Credentials Committee  | 1991-2008 |
| Committee on Appointments, Promotion and Tenure | 1995-2008 |
| Pharmacy and Therapeutics Committee             | 1991-1992 |

|                                  |           |
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| Center on Aging and Health,      |           |
| Senior Faculty Associate, member | 1991-2008 |
| Development Committee            | 1999-2008 |

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| CWRU/Henry Ford Hospital Affiliation Committee | 1992-1994 |
| Flexible Elective Committee                    | 1995-2008 |
| Neurology Coordinator, Generalist Initiative   | 1995-2008 |

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| Department of Neurology -Investigational Review Com. |           |
| (Chair)  | 1995-1996 |

|                                     |            |
|-------------------------------------|------------|
| Radiation Safety Committee          | 1996-2008  |
| Radioactive Drug Research Committee | 1996 -2008 |
| Primary Care Track Committee        | 1996-2008  |
| Admissions Committee (SOM)          | 2000-2004  |
|                                     | 2007-2008  |

|                            |           |
|----------------------------|-----------|
| Cleveland Mind Brain Group | 2005-2008 |
|----------------------------|-----------|

Member, Program Committee

**University of Louisville School of Medicine**

2008-2013

Member, Medical Council

Member, United Physician Associates Board of Directors and Compensation Committee

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Member, Single Point Contracting Executive Committee  
 Member, Medical School Fund  
 Member, Compliance Committee, Medical School Fund  
 Member, Medical Executive Committee  
 Member, Anatomical Sciences and Neurobiology Chair Search Committee

### American Academy of Neurology

Member, Research Subcommittee

2011-2013

### BIBLIOMETRICS 11/15/2015

#### ResearcherID

341 publications  
 10,517 citations  
 37.16 citations per article  
 H-index 51

#### Research Gate

47.61 Score  
 12,696 citations

### PAPERS PUBLISHED IN REFEREED JOURNALS

1. Friedland RP, Yahr MD. Meningoencephalopathy secondary to infectious mononucleosis. **Archives of Neurology** 34:186-188, 1977.
2. Friedland RP, Whetsell W. Clinicopathologic notes: Adrenocortical carcinoma with Cushing's syndrome, organic psychosis and aphasia, **Mount Sinai Journal of Medicine** 45:509-523, 1978.
3. Friedland RP, Grant S. Hematocrit, viscosity and cerebral blood flow. **American Heart Journal** 97:404-405, 1979.
4. Yen CK, Yano Y, Budinger TF, Friedland RP, Derenzo SE, Huesman RH, O'Brien HA. Brain tumor evaluation using RB-82 and positron emission tomography. **Journal of Nuclear Medicine** 23:532-537, 1982.
5. Cooper JA, Nakada T, Knight RT, Friedland RP. Autosomal dominant motor system degeneration in a black family. **Annals of Neurology** 14:585-587, 1983.
6. Friedland RP, Budinger TF, Yano Y, Huseman R, Knittel B, Derenzo, SE, Koss, B, Ober BA. Regional cerebral metabolic alterations in Alzheimer-type dementia: Kinetic studies with 18-fluorodeoxyglucose. **Journal of Cerebral Blood Flow and Metabolism** 3, Suppl 1:S510-511, 1983.
7. Friedland RP, Mathis CA, Budinger TF, Moyer BR. Labeled choline and phosphorylcholine: Body distribution and brain autoradiography. **Journal of Nuclear Medicine** 24:812-815, 1983.
8. Friedland, RP, Budinger TF, Ganz E, Yano Y, Mathis CA, Koss B, Ober BA, Huesman R, Derenzo S. Regional cerebral metabolic alterations in dementia of the Alzheimer-type: positron emission tomography with 18-fluorodeoxyglucose. **Journal of Computer Assisted Tomography** 7:590-598, 1983.
9. Jones A, Friedland RP, Koss B, Ober BA, Stark, L. Saccadic intrusions in Alzheimer-type dementia. **Journal of Neurology** 229:189-194, 1983.

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10. Friedland RP, Yano Y, Budinger TF, Ganz E, Huesman RH, Derenzo SE, Knittel B. Quantitative evaluation of blood brain barrier integrity in Alzheimer-type dementia: Positron emission tomographic studies with rubidium-82. **European Neurology** 22, Suppl 2:19-20, 1983.
11. Koss E, Ober BA, Delis D, Friedland RP. The Stroop color-word test: Indicator of dementia severity. **International Journal of Neurosciences** 24:53-61, 1984.
12. Friedland RP, Prusiner S, Jagust W, Budinger TF. Bitemporal hypometabolism in Creutzfeldt-Jakob disease: Positron emission tomography with 18F-2-fluorodeoxyglucose. **Journal of Computer Assisted Tomography** 8:978-981, 1984.
13. Friedland RP, Budinger TF, Brant-Zawadzki MN, Jagust WJ. The diagnosis of Alzheimer-type dementia: a preliminary comparison of PET and proton NMR imaging. **Journal of the American Medical Association** 252:2750-2752, 1984.
14. Friedland RP, Budinger TF, Koss E, Ober BA. Alzheimer's disease: anterior-posterior and lateral hemispheric alterations in cortical glucose utilization. **Neuroscience Letters** 53:235-240, 1985.
15. Ober BA, Koss E, Friedland RP, Delis DC. Processes of verbal memory failure in Alzheimer-type dementia. **Brain and Cognition** 4:90-103, 1985.
16. Jagust WJ, Friedland RP, Budinger TF. Positron emission tomography differentiates normal pressure hydrocephalus from Alzheimer's disease. **Journal of Neurology, Neurosurgery and Psychiatry** 48:1091-1096, 1985.
17. Koss E, Friedland RP, Ober BA, Jagust WJ. Differences in lateral hemispheric asymmetries of glucose utilization between early-and late-onset Alzheimer-type dementia. **American Journal of Psychiatry** 142:638-640, 1985.
18. Jagust WJ, Friedland RP. Positron emission tomography in the study of Alzheimer's disease. **VA Practitioner** 2:55-66, 1985.
19. Friedland RP, Koss E, Jagust WJ. Lateral hemispheric asymmetries of glucose use in Alzheimer's disease: Relationships to behavior, age of onset and prognosis. **Journal of Cerebral Blood Flow and Metabolism** 5, (Suppl 1):S123-124, 1985.
20. Friedland RP, Jagust WJ, Budinger TF, Huesman RH, Knittel B. Methodological factors affecting the accuracy of metabolic measurements in PET studies with (18F)-2-fluoro-2-deoxy-D-glucose (FDG). **Journal of Cerebral Blood Flow and Metabolism** 5(Suppl. 1):S609-610, 1985.
21. Ober BA, Dronkers NF, Koss E, Friedland RP, Delis DC. Retrieval from semantic memory in Alzheimer-type dementia. **Journal of Clinical and Experimental Neuropsychology** 8:75-92, 1986.
22. Lakshminarayanan V, Friedland RP, Muller EC, Koss E, Stark L. The vestibular-ocular reflex in Alzheimer's disease. **Neuro-ophthalmology** 6:205-208, 1986.
23. Jagust WJ, Budinger TF, Huesman RH, Friedland RP, Mazoyer BM, Knittel BL. Methodological factors affecting PET measurements of cerebral glucose metabolism. **Journal of Nuclear Medicine** 27:1358-1361, 1986.
24. Luxenberg J, Friedland RP, Rapoport SI. Quantitative X-ray computed tomography (CT) in dementia of the Alzheimer type (DAT). **Canadian Journal of the Neurological Sciences** 13:570-572, 1986.
25. Haxby JV, Grady CL, Friedland RP, Rapoport SI. Neocortical metabolic abnormalities precede nonmemory cognitive impairments in early dementia of the Alzheimer type: Longitudinal confirmation. **Journal of Neural Transmission** 24:49-53, 1987.

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26. Grady C, Haxby JV, Horwitz B, Sundaram M, Berg G, Schapiro M, Friedland RP, Rapoport SI. A longitudinal study of the early neuropsychological and cerebral metabolic changes in dementia of the Alzheimer type. **Journal of Clinical and Experimental Neuropsychology** 10:576-596, 1988.
27. Kaye JA, May C, Daly E, Attack JR, Sweeney DJ, Luxenberg JS, Kay AD, Kaufman S, Milstein S, Friedland RP, Rapoport SI. Cerebrospinal fluid monoamine markers are decreased in dementia of the Alzheimer type with extrapyramidal features. **Neurology** 38:554-557, 1988.
28. Rainero I, May C, Kaye JA, Friedland RP, Rapoport SI. Cerebrospinal fluid alpha melanocyte stimulating hormone in dementia of the Alzheimer type. **Neurology** 38:1281-1284, 1988.
29. Jagust WJ, Friedland RP, Budinger TF, Koss E, Ober B. Longitudinal studies of regional cerebral glucose utilization in Alzheimer's disease. **Neurology** 38:909-912, 1988.
30. Luxenberg J, Plato CC, Fox KM, Friedland RP, Rapoport SI. Digital and palmar dermatoglyphics in dementia of the Alzheimer's type. **Journal of Medical Genetics** 30:733-740, 1988.
31. Koss E, Weiffenbach JM, Haxby JV, Friedland RP. Olfactory detection and identification performance in Alzheimer's disease. **Neurology** 38:1228-1232, 1988.
32. Friedland RP, Horwitz B, Koss E. Measurement of disease progression in Alzheimer's disease. **Neurobiology of Aging** 9:95-97, 1988.
33. Luxenberg J, Swedo S, Flament MF, Friedland RP, Rapoport SI. Neuroanatomic abnormalities in obsessive compulsive disorder detected with quantitative x-ray computed tomography. **American Journal of Psychiatry** 145: 1089-1093, 1988.
34. Friedland RP, Koss E, Haxby JV, Grady C, Luxenberg J, Schapiro MB, Kaye J. The clinical and biological heterogeneity of Alzheimer's disease. **Annals of Internal Medicine** 109:298-311, 1988.
35. Friedland RP, Koss E, Kumar A, Gaine S, Metzler D, Haxby JV, Moore A, Rapoport SI, Motor vehicle crashes in dementia of the Alzheimer type. **Annals of Neurology** 24:782-786, 1988.
36. Kumar A, Koss E, Metzler D, Moore A, Friedland RP. Behavioral symptomatology in dementia of the Alzheimer type. **Alzheimer's Disease and Associated Disorders: An International Journal** 2:363-365, 1988.
37. Rainero I, Kaye JA, May C, Durso R, Katz DI, Albert ML, Wolfe N, Pinessi L, Friedland RP, Rapoport SI. Alpha-melanocyte stimulating hormone immunoreactivity is increased in cerebrospinal fluid of patients with Parkinson's disease. **Archives of Neurology** 45:1224-1227, 1988.
38. Haxby JV, Grady CL, Koss E, Horwitz B, Shapiro M, Friedland RP, Rapoport SI. Heterogeneous anterior-posterior metabolic patterns in dementia of the Alzheimer type. **Neurology** 38:1853-1863, 1988.
39. Kaye JA, May C, Attack JR, Daly E, Sweeney DL, Beal MF, Kaufman S, Milstein S, Friedland RP, Rapoport SI. Cerebrospinal fluid neurochemistry in the myoclonic subtype of Alzheimer's disease. **Annals of Neurology** 24:647-650, 1988.
40. Friedland RP. Positron imaging in the dementing illnesses. **Journal of Neuropsychiatry and Clinical Neurosciences** 39:309-310, 1989.
41. Swedo SE, Schapiro MB, Grady CL, Cheslow DL, Leonard HL, Kumar A, Friedland RP, Rapoport SI, Rapoport JL. Cerebral glucose metabolism in childhood-onset obsessive compulsive disorder. **Archives of General Psychiatry** 46:518-523, 1989.



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42. Friedland RP, Jagust WJ, Huesman RH, Koss E, Knittel B, Mathis CA, Ober BA, Mazoyer BM, Budinger TF. Regional cerebral glucose transport and utilization in Alzheimer's disease. **Neurology** 39:1427-1434, 1989.
43. Friedland RP. "Normal" pressure hydrocephalus and the saga of the treatable dementias. **Journal of the American Medical Association** 262:2577-2581, 1989.
44. Grady CL, Berg G, Carson RE, Daube-Witherspoon WE, Friedland RP, Rapoport SI. Quantitative comparison of glucose metabolic rates from two position emission tomographs. **Journal of Nuclear Medicine** 30:1386-1392, 1989.
45. Schapiro MB, Luxemberg JS, Kaye JA, Haxby JV, Friedland RP, Rapoport SI. Serial quantitative CT analysis of brain morphometrics in adult Down's Syndrome at different ages. **Neurology** 39:1349-1353, 1989.
46. Friedland RP. Position emission tomography in dementia. **Seminars in Neurology** 9:338-344, 1989.
47. Friedland RP, May C, Dahlberg J. The viral hypothesis of Alzheimer's Disease: Absence of antibodies to lentiviruses. **Archives of Neurology** 47:177-178, 1990.
48. Ship JA, DeCarli C, Friedland RP, Baum B. Diminished submandibular salivary flow in dementia of the Alzheimer type. **Journal of Gerontology** 45:M61-66, 1990.
49. May C, Kaye JA, Atack JR, Schapiro MB, Friedland RP, Rapoport SI. Cerebrospinal fluid production is reduced in healthy aging. **Neurology** 40:500-503, 1990.
50. Friedland RP, Luxenberg JS, Koss E. A quantitative study of intracranial calcification in dementia of the Alzheimer type. **International Psychogeriatrics** 2:37-43, 1990.
51. Kaye JA, Grady CL, Haxby JV, Moore A, Friedland RP. Plasticity in the aging brain: Reversibility of anatomic, metabolic and cognitive deficits in normal pressure hydrocephalus following shunt surgery. **Archives of Neurology** 47:1336-1341, 1990.
52. Schapiro MB, Grady CL, Kumar A, Herscovitch P, Haxby JV, Moore AM, White B, Friedland RP, Rapoport SI. Regional cerebral glucose metabolism is normal in young adults with Down Syndrome. **Journal of Cerebral Blood Flow and Metabolism** 10:199-206, 1990.
53. May C, Haber M, Young SH, Tomai TP, Csako G, Friedland RP. Osmoregulation in Alzheimer's Disease. **Dementia** 1:90-94, 1990.
54. Haxby JV, Grady CL, Koss E, Horwitz B, Heston L, Schapiro M, Friedland RP, Rapoport SI. Longitudinal study of cerebral metabolic asymmetries and associated neuropsychological patterns in early dementia of the Alzheimer type. **Archives of Neurology** 47:753-760, 1990.
55. Schapiro MB, Kumar A, White B, Fox D, Grady CL, Haxby JV, Friedland RP, Rapoport SI. Dementia without mental retardation in mosaic translocation Down Syndrome. **Brain Dysfunction** 3:165-174, 1990.
56. Kumar A, Schapiro MB, Haxby JV, Grady CL, Friedland RP. Cerebral metabolic and cognitive studies in dementia with frontal lobe behavioral features. **Journal of Psychiatric Research** 24(2):97-109, 1990.
57. Kumar A, Schapiro MB, Grady CL, Haxby JV, Wagner E, Salerno JA, Friedland RP, Rapoport SI. High resolution studies of cerebral glucose metabolism in Alzheimer's disease. **Neuropsychopharmacology** 4:35-46, 1991.
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59. Koss E, Haxby JV, DeCarli C, Schapiro MB, Friedland RP, Rapoport SI. Patterns of performance preservation and loss in healthy aging. **Developmental Neuropsychology** 7:99-113, 1991.
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61. DeCarli C, Fugate L, Falloon J, Eddy J, Katz D, Friedland R, Rapoport S, Brouwers P, Pizzo P. Brain growth and cognitive improvement in children with HIV-induced encephalopathy after six months of continuous infusion AZT therapy. **Journal of the Acquired Immune Deficiency Syndrome** 4:585-592, 1991.
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64. Friedland RP. Alzheimer's disease: Clinical features and differential diagnosis **Neurology** 43 (suppl 4):S45-S51, 1993.
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68. Drachman DA, Swearer JM, Barnes HJ, Woodward BM, Peterson KE, Moonis M, Weintraub S, Morecroft K, Guinessey J, Acar D, Sandson T, Blass J, Nolan K, Ryan B, Morris JC, Ball LA, Friedland RP, Martin R, DeKosky ST, FuQua-Whitley D, Lineman DA, Castle J. Driving and Alzheimer's Disease: The risk of crashes. **Neurology** 43:2448-2456, 1993.
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70. Hedera P, Friedland RP. Duane's syndrome with giant aneurysm of the vertebral basilar arterial junction. **Journal of Clinical Neuro-ophthalmology** 13:271-274, 1993.
71. Friedland RP. Editorial: Epidemiology, education, and the ecology of Alzheimer's disease. **Neurology** 43:246-249, 1993 (published also in Portuguese in: **Cadernos IPUB Envelhecimento e Saude Mental**, Ed. By A. Leibling, Instituto de Psiquiatria, UFRJ, No. 10, 1999, pp. 165-174.
72. Friedland RP. Epidemiology and the multiple determinants of Alzheimer's disease. **Neurobiology of Aging** 15:239-241, 1994.
73. Friedland RP, Majocha RE, Reno JM, Lyle LR, Marotta CA. Development of an anti-A $\beta$  monoclonal antibody for in vivo imaging of amyloid angiopathy in Alzheimer's disease. **Molecular Neurobiology** 9:107-113, 1994.
74. Lerner AJ, Koss E, Patterson MB, Hedera P, Ownby RL, Friedland RP, Whitehouse PJ. Concomitants of visual hallucinations in Alzheimer's disease. **Neurology** 44:523-527, 1994.

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75. Hedera P, Cohen ML, Lerner AJ, Friedland RP. Dementia preceding motor symptoms in Parkinson's disease: A case study. **Neuropsychiatry, Neuropsychology and Behavioral Neurology** 7:67-72, 1994.
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#### RECORDED TALKS

1. Louisville Free Pubic Library series: Boom Time Series Jan 18, 2012

Dr. Robert Friedland. "Your brain: How to reduce your risk"

<http://louisville.edu/television/Med/Alzheimers/Friedland.aspx>

2. Alzheimer Meeting Sep 17th 2011, Crowne Plaza Louisville

"The Journey: Alzheimer's Disease and Caregiving".

<http://louisville.edu/television/Med/Alzheimers/Friedland1.aspx>

3. Neurology Grand Rounds, UofL, Mar 16, 2012

Dr. Robert Friedland. The Framing of the Concept of Dementia:

"From Emil Kraepelin to National Institute of Aging"

<http://louisville.edu/television/Med/GrandRounds/NGR031612.aspx>

4. Rotary Club of Louisville, Jan 31, 2013

Alzheimer's disease, dementia and aging

<http://www.youtube.com/watch?v=jFD2K4Ns-0Y>

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5. Friedland RP. Eye movement abnormalities in Alzheimer's disease. Oculomotor System Society, Berkeley, California, February, 1984.
6. Friedland RP. Positron imaging in dementia: implications for diagnosis and pathophysiology. Alzheimer's Disease: A Conference on Assessment and Treatment of Patients and Caregivers, Office of Geriatrics and Extended Care, VA Central Office, Palo Alto, June, 1984.
7. Friedland RP. The etiology of Alzheimer's disease; recent developments. San Francisco Neurological Society, Pebble Beach, California, March, 1984.
8. Friedland RP. Positron emission tomography and the blood brain barrier in Alzheimer's disease. Beaune Conference on Acute Cerebrovascular Diseases Pharmacology, Beaune, France, October, 1984.
9. Friedland RP. PET in the early diagnosis of Alzheimer's disease. International Tropan-Bayer Symposium on Brain Aging, Cologne, November, 1984.
10. Friedland RP. Regional alterations of glucose use in Alzheimer's disease. Symposium on Biological Correlates of Cognitive Impairment in Alzheimer's Disease, European International Neuropsychological Society, Copenhagen, June 19985, Journal of Clinical and Experimental Neuropsychology 7:168, 1985 (Abstract).
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62. Friedland RP. Genetic and environmental risk factors for Alzheimer's disease in Kenya and Israel. Neuroscience in Developing Countries: Getting Around the Problems. Society for Neuroscience Workshop, November 1998, Los Angeles. (*Int J Neurosci* 99:102, 1999).
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82. Friedland RP. Dietary and genetic interactions in Alzheimer's disease. Nutritional Modulation of Aging and Age -Related Diseases, American Aging Association Annual Conference, Boston, June, 2003.
83. Friedland RP, Lipids Diet and Alzheimer's disease. International Society for Vascular Behavioural and Cognitive Disorders (VAS-COG), Goteborg, August, 2003
84. Friedland RP, Update on early diagnosis of vascular dementia and progress in amyloid Beta protein imaging. International Society for Vascular Behavioural and Cognitive Disorders (VAS-COG), Goteborg, August, 2003
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87. Friedland, RP. Lipid metabolism, diet and Alzheimer's disease. Research Institute for Brain and Blood Vessels, Akita, Japan, January, 2004.



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89. Friedland RP, Global perspectives on Alzheimer's disease risk and protective factors: What can be done to lower risk? The 17th International Symposium on Aging and Health, National Institute of Longevity Sciences, Nagoya, Japan, October, 2004.
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92. Friedland, RP. Risk and protective factors for Alzheimer's disease in the Middle East. Alzheimer's Disease International, Istanbul, September, 2005.
93. Friedland RP. Epidemiology, risk factors and economics of Alzheimer's disease, Van der Meulen Symposium: Dementia 2006: Advances in Diagnosis and Treatment, Hope through Translational Research, Improving Health Care Delivery, University of Southern California, March, 2006.
94. Friedland RP, Evolutionary perspectives on the risk and protective factors for Alzheimer's disease. Smoky Mountain Alzheimer's Disease Symposium, Gatlinburg, Tennessee, University of Tennessee, Knoxville, June, 2006.
95. Friedland RP. The role of cerebrovascular factors in Alzheimer's disease. 12<sup>th</sup> Annual Alzheimer's Disease Symposium. Medical College of Wisconsin, November 2006.
96. Friedland RP, Inflammation and the etiopathogenesis of Alzheimer's disease, Philip Morris External Research Program Symposium, "Inflammatory Processes and Disease", December, 2006, Lansdowne, VA.
97. Friedland RP. Global perspectives on the biology of Alzheimer's disease. 5th Panhellenic Conference of Alzheimer Disease, Thessaloniki, Feb. 2007.
98. Friedland RP. An evolutionary perspective on Alzheimer's disease and gene-environment interactions, Brain Aging and Dementia Symposium, World Federation of Neurology and International Brain Research Organization, Nairobi, Kenya, April, 2007.
99. Friedland RP. Future of Lewy Body Disorders 25<sup>th</sup>. Annual Congress of the International Psychogeriatric Association, Osaka, October 2007.
100. Friedland RP. Management of Parkinson's disease dementia. 25<sup>th</sup>. Annual Congress of the International Psychogeriatric Association, Osaka, October 2007.
101. Friedland RP, Dementia in the Arab community. The 2<sup>nd</sup> US-Israeli-Palestinian Brain Research Conference - Early Detection of Alzheimer's Disease: Promoting Interdisciplinary and International Collaboration, NIA, Hebrew University, Rutgers University, Jerusalem, May 2008.
102. Friedland RP, Antibodies to the potato virus Y bind the A $\beta$  peptide: Immunochemical and NMR studies. CSL Behring International Immunoglobulin Symposium, Interlaken, March, 2009.
103. Friedland RP. The pathogenesis and salutogenesis of Alzheimer's disease. Qatar Health 2009: Rehabilitation and Physical Medicine, December 2009, Doha, Qatar.



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104. Friedland RP Molecular mimicry and the pathobiology of Alzheimer's disease, Morris B. Bender Lecture, Department of Neurology, Mount Sinai School of Medicine, New York, December, 2009.
105. Friedland RP, Alzheimer Update, Kentucky Medical Association Annual Meeting, Sept 2011, Louisville KY.
106. Friedland, RP. Imaging of dementia. Eighth Annual Update Symposium in Clinical Neurology and Neurophysiology, Feb. 2012, Tel Aviv, Israel.
107. Friedland RP. Does the microbial metagenome influence neurodegeneration through molecular mimicry? 8th Neuroscience Ireland Conference, joint meeting with the Irish Biochemical Society, September, 2013, Cork, Ireland.
108. Friedland RP, Molecular mimicry and the causes and mechanisms of the neurodegenerative diseases, 25th Neuroscience Seminar, Kanazawa University, Japan, October 2013
109. Friedland RP. Keynote Lecture, The role of the oral, nasal and intestinal microbiota in neurodegenerative disorders and cerebrovascular disease. Symposium: *Streptococcus mutans* and systemic diseases -2015- Cutting-edge knowledge and future perspectives. Osaka University Graduate School of Dentistry. April 2015.
110. Friedland RP. The influence of bacterial amyloid on Alpha synulcein misfolding in the rat. Parkinson's Disease Therapeutics Conference. Michael J Fox Foundation, New York, November, 2015.
111. Friedland RP. [Plenary speaker, 21st Molecular Neuroscience Research](#) Center [International](#) Symposium on Novel Diagnostic and Therapeutic Approaches to Alzheimer's Disease: Results from animal models and prospects of clinical applications, Shiga Univ. of Medical Sciences, April 2016, Japan.
112. Friedland RP, The role of our oral, nasal and intestinal microbiota in the vascular/degenerative disorders of the brain: Prospects for gene therapy. Symposium on *Streptococcus mutans* and systemic diseases 2016 -Cutting-edge knowledge and future perspectives. October 2016, Osaka University Graduate School of Dentistry.
113. Friedland RP, The role of the microbiota in neurodegenerative disorders, Japanese Society of Neuroinfection, Kanazawa, Japan, October 2016. Neuroinfection 21:185, 2016, Abstract.
114. Friedland RP The Influence of Bacterial Amyloid on Alpha Synuclein (AS) Misfolding in the Rat, Microbiome R&D and Businesss Collaboration Forum, San Diego, October, 2016.
115. Friedland RP, Role of gut microbiota in neurodegenerative diseases, 22<sup>nd</sup> MNRC International Symposium, Neurodegenerative Diseases: New Insights of the Pathological Process, October, 2016, Shiga University of Medical Sciences, Shiga, Japan.
116. Friedland RP, Bacterial seeding of protein aggregation in the brain. Brain Diseases and Gut Microbiota Symposium, April 2017, Geneva, Switzerland.
117. Friedland RP, The microbiota in neurodegeneration and the prospects for gene therapy, Seventh International Symposium on Alzheimer's Disease in the Middle East, Abu Dhabi, UAE, April 2017.
118. Friedland RP, Global pattern of disease occurrence in dementia, Biological mechanisms of Alzheimer's disease, Risk and protective factors for dementia, International Conference on Advances in Dementia, XXI National Conference of the Alzheimer's and Related Disorders Society of India, Kolkatta, Sept. 2017.

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119. Friedland RP, Microbial amyloid and neurodegeneration. Molecular Medicine Tri-Conference, February, 2018, San Francisco, CA.

#### ABSTRACTS AND PRESENTATIONS

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